

SEQUENCE LISTING

<110> Novozymes A/S

<120> Fungal carbohydrate-binding module

<130> 10499.000-DK

<160> 9

<170> PatentIn version 3.2

<210> 1

<211> 629

<212> DNA

<213> Pseudoplectania nigrella

<220>

<221> CDS

<222> (10)..(531)

<400> 1

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gaattcaaaa atg gtc aac ttc acc acc ctc ctc ccg gtt ctt gcc gct ctt      51
Met Val Asn Phe Thr Thr Leu Leu Pro Val Leu Ala Ala Leu
      1              5              10

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att gga gct gcc aat gcc cac act cgt gtc tac gga ctc tcc gtc aac      99
Ile Gly Ala Ala Asn Ala His Thr Arg Val Tyr Gly Leu Ser Val Asn
15              20              25              30

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gat gtc aca tcc tcc ggc acc tcc aat gac aag gcc gtc gct tct tcc      147
Asp Val Thr Ser Ser Gly Thr Ser Asn Asp Lys Ala Val Ala Ser Ser
              35              40              45

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agt att gcg gcc gtg gac cct gtg acc agc tcc gtc gta gcc tct gtt      195
Ser Ile Ala Ala Val Asp Pro Val Thr Ser Ser Val Val Ala Ser Val
              50              55              60

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cag gtc cct aac ttc act gcc act gac gtc ccc act ttt act gcc acc      243
Gln Val Pro Asn Phe Thr Ala Thr Asp Val Pro Thr Phe Thr Ala Thr
              65              70              75

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gac atc cct act ttc act gct act gat gtt cct atc ttc acc aag aag      291
Asp Ile Pro Thr Phe Thr Ala Thr Asp Val Pro Ile Phe Thr Lys Lys
      80              85              90

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ccc caa cag ccc tca act tta ttg acc cgc acc cgt acc cat gcc tct      339
Pro Gln Gln Pro Ser Thr Leu Leu Thr Arg Thr Arg Thr His Ala Ser
95              100              105              110

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gtt tca ttc gtc gct aag ccc tcc gct ttt att ccc aag cct tcc gcg      387
Val Ser Phe Val Ala Lys Pro Ser Ala Phe Ile Pro Lys Pro Ser Ala
              115              120              125

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agc aca atc ccg tca aag ccc aag act ccc gaa gag gtt aat aag tgc      435
Ser Thr Ile Pro Ser Lys Pro Lys Thr Pro Glu Glu Val Asn Lys Cys
              130              135              140

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ctt gac gct gtc aac gcc tgt att aca cag gcc cag agc tcc att gga 483
 Leu Asp Ala Val Asn Ala Cys Ile Thr Gln Ala Gln Ser Ser Ile Gly
 145 150 155

gga gtt gtc aac ttt gag cct tgc gag agc cag aga gct ctt tgc tat 531
 Gly Val Val Asn Phe Glu Pro Cys Glu Ser Gln Arg Ala Leu Cys Tyr
 160 165 170

taggaactgc aaagaatctg gggggatggt agcgaggttg agaggtggag gagcggagga 591
 gtaggggagg tgagatggag taagattaag cggccgca 629

<210> 2
 <211> 174
 <212> PRT
 <213> Pseudoplectania nigrella

<400> 2

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Ala Ala Asn Ala His Thr Arg Val Tyr Gly Leu Ser Val Asn Asp Val
 20 25 30

Thr Ser Ser Gly Thr Ser Asn Asp Lys Ala Val Ala Ser Ser Ser Ile
 35 40 45

Ala Ala Val Asp Pro Val Thr Ser Ser Val Val Ala Ser Val Gln Val
 50 55 60

Pro Asn Phe Thr Ala Thr Asp Val Pro Thr Phe Thr Ala Thr Asp Ile
 65 70 75 80

Pro Thr Phe Thr Ala Thr Asp Val Pro Ile Phe Thr Lys Lys Pro Gln
 85 90 95

Gln Pro Ser Thr Leu Leu Thr Arg Thr Arg Thr His Ala Ser Val Ser
 100 105 110

Phe Val Ala Lys Pro Ser Ala Phe Ile Pro Lys Pro Ser Ala Ser Thr
 115 120 125

Ile Pro Ser Lys Pro Lys Thr Pro Glu Glu Val Asn Lys Cys Leu Asp
 130 135 140

Ala Val Asn Ala Cys Ile Thr Gln Ala Gln Ser Ser Ile Gly Gly Val
 145 150 155 160

Val Asn Phe Glu Pro Cys Glu Ser Gln Arg Ala Leu Cys Tyr
 165 170

<210> 3
 <211> 31
 <212> DNA
 <213> Pseudoplectania nigrella

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 <221> misc_feature Primer NP887U1
 <222> (1)..(31)

<400> 3
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 <212> DNA
 <213> Pseudoplectania nigrella

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 <212> DNA
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 <222> (1)..(21)

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<210> 6
 <211> 32
 <212> DNA
 <213> Artificial

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 <222> (1)..(32)

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<210> 7
 <211> 32
 <212> DNA
 <213> Artificial

<220>
 <223> Primer N887Dau2

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 <222> (1)..(32)

<400> 7
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<210> 8
 <211> 573
 <212> DNA
 <213> Pseudoplectania nigrella

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 <222> (1)..(570)
 <223> Positions 1-57 Candida lipase signal peptide, positions 58-147
 Candida lipase sequence, positions 148-570 P. nigrella CBM
 polypeptide.

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ggt gca gcc act cct ttg gtg aag tgc gca act agt ggc cat tac ggc 96
 Val Ala Ala Thr Pro Leu Val Lys Cys Ala Thr Ser Gly His Tyr Gly
 20 25 30

ctc gcg agg ccg cct cgg ccc caa cga att ctt gga ata tta agc ttt 144
 Leu Ala Arg Pro Pro Arg Pro Gln Arg Ile Leu Gly Ile Leu Ser Phe
 35 40 45

tca tcc tcc ggc acc tcc aat gac aag gcc gtc gct tct tcc agt att 192
 Ser Ser Ser Gly Thr Ser Asn Asp Lys Ala Val Ala Ser Ser Ser Ile
 50 55 60

gcg gcc gtg gac cct gtg acc agc tcc gtc gta gcc tct gtt cag gtc 240
 Ala Ala Val Asp Pro Val Thr Ser Ser Val Val Ala Ser Val Gln Val
 65 70 75 80

cct aac ttc act gcc act gac gtc ccc act ttt act gcc acc gac atc 288
 Pro Asn Phe Thr Ala Thr Asp Val Pro Thr Phe Thr Ala Thr Asp Ile
 85 90 95
 cct act ttc act gct act gat gtt cct atc ttc acc aag aag ccc caa 336
 Pro Thr Phe Thr Ala Thr Asp Val Pro Ile Phe Thr Lys Lys Pro Gln
 100 105 110
 cag ccc tca act tta ttg acc cgc acc cgt acc cat gcc tct gtt tca 384
 Gln Pro Ser Thr Leu Leu Thr Arg Thr Arg Thr His Ala Ser Val Ser
 115 120 125
 ttc gtc gct aag ccc tcc gct ttt att ccc aag cct tcc gcg agc aca 432
 Phe Val Ala Lys Pro Ser Ala Phe Ile Pro Lys Pro Ser Ala Ser Thr
 130 135 140
 atc ccg tca aag ccc aag act ccc gaa gag gtt aat aag tgc ctt gac 480
 Ile Pro Ser Lys Pro Lys Thr Pro Glu Glu Val Asn Lys Cys Leu Asp
 145 150 155 160
 gct gtc aac gcc tgt att aca cag gcc cag agc tcc att gga gga gtt 528
 Ala Val Asn Ala Cys Ile Thr Gln Ala Gln Ser Ser Ile Gly Gly Val
 165 170 175
 gtc aac ttt gag cct tgc gag agc cag aga gct ctt tgc tat tag 573
 Val Asn Phe Glu Pro Cys Glu Ser Gln Arg Ala Leu Cys Tyr
 180 185 190

<210> 9

<211> 190

<212> PRT

<213> Pseudoplectania nigrella

<400> 9

Met Lys Leu Leu Ser Leu Thr Gly Val Ala Gly Val Leu Ala Thr Cys
 1 5 10 15
 Val Ala Ala Thr Pro Leu Val Lys Cys Ala Thr Ser Gly His Tyr Gly
 20 25 30
 Leu Ala Arg Pro Pro Arg Pro Gln Arg Ile Leu Gly Ile Leu Ser Phe
 35 40 45
 Ser Ser Ser Gly Thr Ser Asn Asp Lys Ala Val Ala Ser Ser Ser Ile
 50 55 60
 Ala Ala Val Asp Pro Val Thr Ser Ser Val Val Ala Ser Val Gln Val
 65 70 75 80
 Pro Asn Phe Thr Ala Thr Asp Val Pro Thr Phe Thr Ala Thr Asp Ile
 85 90 95

Pro Thr Phe Thr Ala Thr Asp Val Pro Ile Phe Thr Lys Lys Pro Gln
100 105 110

Gln Pro Ser Thr Leu Leu Thr Arg Thr Arg Thr His Ala Ser Val Ser
115 120 125

Phe Val Ala Lys Pro Ser Ala Phe Ile Pro Lys Pro Ser Ala Ser Thr
130 135 140

Ile Pro Ser Lys Pro Lys Thr Pro Glu Glu Val Asn Lys Cys Leu Asp
145 150 155 160

Ala Val Asn Ala Cys Ile Thr Gln Ala Gln Ser Ser Ile Gly Gly Val
165 170 175

Val Asn Phe Glu Pro Cys Glu Ser Gln Arg Ala Leu Cys Tyr
180 185 190